

**AMENDMENTS TO THE CLAIMS:**

Please replace the claims with the claims provided in the listing below wherein status, amendments, additions and cancellations are indicated.

1-2. (Canceled).

3. (Currently Amended) A method of manufacturing a longitudinal microsolenoid, which comprises

a step A of stacking an insulating material on a substrate, coating a photosensitive material thereon, and exposing and then developing the photosensitive material using a mask C to form a spiral photosensitive material,

a step B of, after said step A, solidifying the photosensitive material by treatment at a high temperature, forming an insulating material under the photosensitive material into a spiral shape by etching, and stacking a metal on the substrate,

a step C of, after said step B, coating a photosensitive material, and exposing and developing the photosensitive material using a mask D to leave the photosensitive material covering only the metal on [[the]] a base of the spiral structure, and

a step D of, after said step C, conducting high-temperature treatment, etching the metal that is exposed, and then removing the photosensitive material,

said mask C being such that a light-shielding film capable of controlling a light transmittance from 100% to 0% annularly and continuously is provided on a glass through which a light is transmitted by 100%, and such that said mask D has an annular light-shielding film with a light transmittance of 0%.

4-8. (Canceled)